U.S. IOOS Coastal and Ocean Modeling Testbed Roundup

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ABSTRACT

The Coastal and Ocean Modeling Testbed (COMT) uses targeted research and development to accelerate the transition of scientific and technical advances from the coastal and ocean modeling research community to improve identified operational ocean products and services (i.e. via research to operations and also operations to research). The vision of the program is to enhance the accuracy, reliability, and scope of the federal suite of operational coastal and ocean modeling products, while ensuring its diverse user community is better equipped to solve challenging coastal problems. Since its initiation in June 2010, non-federal partner, the Southeast University Research Association (SURA) has led the development of the COMT to include a flexible and extensible community research framework to test and evaluate predictive models to address key coastal environmental issues. This framework supports integration, comparison, scientific analyses and archiving of data and model output. The COMT has developed a cyber infrastructure to allow more effective collaborations among Federal research labs, the academic community and Federal operational centers to accelerate improvements of predictive models. There are 5 projects underway and we are improving our coordination with federal partners for transition every year. This presentation will highlight what drives COMT priorities and how we are developing that for future years. We will show relevant accomplishments for the projects as well as accomplishments for the COMT infrastructure in its process for integration with NOAA. The hypoxia projects are connecting well with the Ecological Forecasting Roadmap and the WCOFS project has been integrated in a cross Line Office coordinated implementation project. Finally, we will provide an outlook for 2015.